

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	260	313/583.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07
L2	502	313/587.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07
L3	715	313/586.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07
L5	1762	313/582.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07
L6	607	313/581.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07
L9	666	313/584.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07
L10	304	313/585.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07
L14	1970	(non adj discharge\$2) or (non-discharge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07

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L17	203642	samsung.asn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:07
L19	3353	1 or 2 or 3 or 5 or 6 or 9 or 10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:34
L22	3146714	protrusion\$2 or indentation\$2 or gap\$2 or slot\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:36
L23	94	14 and 19 and 22	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:44
L24	23638254	@ad<"20030102"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:45
L25	22	23 and 24	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:52
L26	72	23 not 25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:52
L27	10	26 and 17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/23 21:53

What is claimed is:

1. A plasma display panel, comprising:

a first substrate;

a plurality of pairs of a first electrode and a second electrode formed on the first substrate extending parallel with each other, the first electrode and the second electrode generating a sustain discharge, and the first electrode and the second electrode each including at least one recessed portion and at least one projection portion such that the recessed portions and the projection portions of both electrodes face each other;

a second substrate on a side of the first substrate on which the first electrode and the second electrode are formed such that a discharge space is interposed between the first substrate and the second substrate;

a plurality of address electrodes formed on the second substrate and facing the first substrate;

barrier ribs partitioning the discharge space between the first substrate and the second substrate into a plurality of discharge cells; and

a fluorescent substance formed in each of the discharge cells,

wherein the plasma panel display satisfies  $180 \leq (A+B) + P \times 0.1 \leq 240$  wherein A is a distance between opposite recessed portions of a pair of the first electrode and the second electrode, B is a distance between opposite projection portions of a pair of the first electrode and the second electrode, P is gas pressure of discharge gas in the discharge space.

2. The plasma display panel of claim 1, wherein the recessed portions are located at the center of the respective ends of the first electrode and second electrode.

3. The plasma display panel of claim 1, wherein the projection portions are located on at least one side of the respective ends of the first electrode and the second electrode.

4. The plasma display panel of claim 3, wherein the projection portions are disposed symmetrically on both sides of each of the first electrode and the second electrode.

5. The plasma display panel of claim 1, wherein the recessed portions have a predetermined curvature.

6. The plasma display panel of claim 1, wherein each of the first electrode and the second electrode has a projection electrode that is projected to face each other, and the recessed portion and the projection portions are included in the projection electrodes.

7. The plasma display panel of claim 6, wherein ends of the respective projection electrodes of the first electrode and the second electrode farthest from each other are narrower than other sections of the projection electrodes.

8. The plasma display panel of claim 1, wherein the first electrode and the second electrode respectively include bus electrodes and transparent electrodes extending from the bus electrodes facing each other, and each of the transparent electrodes includes the recessed portion and the projection portion.

9. The plasma display panel of claim 8, wherein the respective transparent electrodes of the first electrode and the second electrode farthest from each other are narrower than other sections of the transparent electrodes.

10. The plasma display panel of claim 1, wherein the barrier rib extends in the same direction as the address electrodes, between the address electrodes.

11. The plasma display panel of claim 1, wherein the barrier ribs have a lattice shape formed to surround the discharge cells.

12. The plasma display panel of claim 1, wherein the barrier ribs further partition non-discharge regions around the discharge cells.

13. The plasma display panel of claim 12, wherein the barrier ribs have an octagonal configuration surrounding each of the discharge cells.

14. The plasma display panel of claim 1, wherein the gas pressure of the discharge gas in the discharge space is over 450 Torr.

15. The plasma display panel of claim 14, wherein the gas pressure of the discharge gas in the discharge space is under 600 Torr.

16. The plasma display panel of claim 1, wherein an initiation voltage of the sustain discharge is over 180 V and under 240 V.

17. The plasma display panel of claim 1, wherein the discharge gas includes at least xenon Xe.

18. The plasma display panel of claim 17, wherein the concentration of the xenon Xe of the discharge gas is at least 10% in terms of gas pressure.

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